Nanoscale robotics Paper details: For extra credit, supply a 5-page research paper on a contemporary experimental physics topic of your choice. Strictly theoretical topics (e.g. string theory or theories of error correction in quantum computing without experimental verification) are not permissible. Your paper should 1) Review the current status of research on a specific contemporary topic in physics, astronomy, or engineering application of modern physics. Examples: Higgs boson, extragalactic gamma-ray sources, nanoscale robotics Visit Google Scholar , enter a topic, select the date range, use the cited by and related articles links to find related articles. Read the articles. Each article will begin by setting the context and supply references to help the reader discover the state of the art. The article will also indicate what its contribution is to the field. 2) Focus on and summarize the contribution of a specific peer-reviewed experimental paper or two. Review articles may help set the context and be cited in your paper but not be the focus of your paper. Examples: Direct constraint on the Higgs-charm coupling from a search for Higgs boson decays into charm quarks with the ATLAS detector Strong evidence that the galactic bulge is shining in gamma rays 3D electron-beam writing at sub-15 nm resolution using spider silk as a resist 3) Cite no more than 10 peer-reviewed journal articles, with no less than 5 with publication dates after 2010. Review articles may be cited. Do not cite blogs, news articles, Wikipedia articles or other non-peer-reviewed publications. 4) Be between 2000 and 2500 words including the bibliography. Include word count at the end of the paper. 5) Be free of spelling and grammatical errors. Spell check and grammar check your paper using MS Word or Grammarly or siimilar. Have a friend proofread your draft paper! The links in the course navigation menu to This Week in Physics, Physical Review Letter Highlights, American Journal of Physics, and Nature (physics), may serve as sources of inspiration. !!! Please use academic and peer-reviewed source, and add bibliography at the and of the paper